5 <u>CLAIMS</u>

1. A method of treating or preventing chronic organ transplant rejection in a mammal, including a human, comprising administering to said mammal an amount of a compound of the formula

$$R^1$$
  $R^2$   $R^3$   $R^3$ 

or the pharmaceutically acceptable salt thereof; wherein

R<sup>1</sup> is a group of the formula

wherein y is 0, 1 or 2;

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 $R^4$  is selected from the group consisting of hydrogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_1\text{-}C_6)$ alkylsulfonyl,  $(C_2\text{-}C_6)$ alkenyl,  $(C_2\text{-}C_6)$ alkynyl wherein the alkyl, alkenyl and alkynyl groups are optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1\text{-}C_4)$ alkoxy,  $(C_1\text{-}C_6)$ acyloxy,  $(C_1\text{-}C_6)$ alkylamino,  $((C_1\text{-}C_6)$ alkyl) $_2$ amino, cyano, nitro,  $(C_2\text{-}C_6)$ alkenyl,  $(C_2\text{-}C_6)$ alkynyl or  $(C_1\text{-}C_6)$ acylamino; or  $R^4$  is  $(C_3\text{-}C_{10})$ cycloalkyl wherein the cycloalkyl group is optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1\text{-}C_6)$ acyloxy,  $(C_1\text{-}C_6)$ acylamino,  $(C_1\text{-}C_6)$ alkyl) $_2$ amino, cyano, cyano $(C_1\text{-}C_6)$ alkyl, trifluoromethyl $(C_1\text{-}C_6)$ alkyl, nitro, nitro $(C_1\text{-}C_6)$ alkyl or  $(C_1\text{-}C_6)$ acylamino;

 $\mathsf{R}^5$  is  $(\mathsf{C}_2\mathsf{-C}_9)$ heterocycloalkyl wherein the heterocycloalkyl groups must be substituted by one to five carboxy, cyano, amino, deuterium, hydroxy,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkoxy, halo,  $(\mathsf{C}_1\mathsf{-C}_6)$ acyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkylamino, amino $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkylamino, CO-NH,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkylamino-CO-,  $(\mathsf{C}_2\mathsf{-C}_6)$ alkenyl,  $(\mathsf{C}_2\mathsf{-C}_6)$  alkynyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkylamino, amino $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl, hydroxy $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkoxy $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl, nitro, cyano $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl, halo $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl, nitro $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl, trifluoromethyl, trifluoromethyl $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ acylamino,  $(\mathsf{C}_1\mathsf{-C}_6)$ acylamino, amino $(\mathsf{C}_1\mathsf{-C}_6)$ acylamino, amino $(\mathsf{C}_1\mathsf{-C}_6)$ acyl, amino $(\mathsf{C}_1\mathsf{-C}_6)$ acyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl, amino $(\mathsf{C}_1\mathsf{-C}_6)$ acyl,  $(\mathsf{C}_1\mathsf{-C}_6)$ alkyl), amino

CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-S(O)<sub>m</sub>, R<sup>15</sup>R<sup>16</sup>NS(O)<sub>m</sub>, R<sup>15</sup>R<sup>16</sup>NS(O)<sub>m</sub> (C<sub>1</sub>-C<sub>6</sub>)alkyl, R<sup>15</sup>S(O)<sub>m</sub> R<sup>16</sup>N, R<sup>15</sup>S(O)<sub>m</sub>R<sup>16</sup>N(C<sub>1</sub>-C<sub>6</sub>)alkyl wherein m is 0, 1 or 2 and R<sup>15</sup> and R<sup>16</sup> are each independently selected from hydrogen or (C<sub>1</sub>-C<sub>6</sub>)alkyl; or a group of the formula

$$(CR^{6}R^{7})_{a} \qquad (X)_{b} \qquad (CR^{9}R^{10})_{d} \qquad (Y)_{e} \qquad (Y)_{e} \qquad R^{11}$$

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wherein a is 0, 1, 2, 3 or 4;

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b, c, e, f and g are each independently 0 or 1; d is 0, 1, 2, or 3;

X is  $S(O)_n$  wherein n is 0, 1 or 2; oxygen, carbonyl or -C(=N-cyano)-;

Y is  $S(O)_n$  wherein n is 0, 1 or 2; or carbonyl; and

Z is carbonyl, C(O)O-, C(O)NR- or  $S(O)_n$  wherein n is 0, 1 or 2;

 $R^6$ ,  $R^7$ ,  $R^8$ ,  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each independently selected from the group consisting of hydrogen or  $(C_1-C_6)$ alkyl optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1-C_6)$ acyloxy,  $(C_1-C_6)$ acylamino,  $(C_1-C_6)$ alkylamino,  $(C_1-C_6)$ alkyl $(C_1-C_6)$ alkyl $(C_1-C_6)$ alkyl $(C_1-C_6)$ alkyl $(C_1-C_6)$ alkyl $(C_1-C_6)$ acylamino;

R<sup>12</sup> is carboxy, cyano, amino, oxo, deuterium, hydroxy, trifluoromethyl, (C<sub>1</sub>trifluoromethyl( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, halo, (C₁-C<sub>6</sub>)acyl,  $C_6$ )alkylamino, (( $C_1$ - $C_6$ )alkyl)<sub>2</sub> amino, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy-CO-NH, ( $C_1$ -C<sub>6</sub>)alkylamino-CO-, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>) alkynyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, hydroxy(C<sub>1</sub>- $C_6$ )alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acyloxy $(C_1-C_6)$ alkyl, nitro, cyano $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, nitro(C<sub>1</sub>-C<sub>6</sub>)alkyl, trifluoromethyl, trifluoromethyl(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C₁-C<sub>6</sub>)acylamino, (C<sub>1</sub>-C<sub>6</sub>)acylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl,  $(C_1-C_6)$ alkoxy $(C_1 C_6$ )acylamino, amino( $C_1$ - $C_6$ )acyl, amino( $C_1$ - $C_6$ )acyl( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )acyl,  $((C_1-C_6)alkyl)_2$ amino $(C_1-C_6)acyl$ ,  $R^{15}R^{16}N-CO-O-$ ,  $R^{15}R^{16}N-CO-(C_1-C_6)alkyl$ ,  $R^{15}C(O)NH$ ,  $R^{15}OC(O)NH$ ,  $R^{15}NHC(O)NH$ ,  $(C_1-C_6)alkyl-S(O)_m$ ,  $(C_1-C_6)alkyl-S(O)_m$ - $R^{15}R^{16}NS(O)_m$ ,  $R^{15}R^{16}NS(O)_m$  (C<sub>1</sub>-C<sub>6</sub>)alkyl,  $R^{15}S(O)_m$   $R^{16}N$ , (C<sub>1</sub>-C<sub>6</sub>)alkyl,  $R^{15}S(0)_mR^{16}N(C_1-C_6)$ alkyl wherein m is 0, 1 or 2 and  $R^{15}$  and  $R^{16}$  are each independently selected from hydrogen or (C<sub>1</sub>-C<sub>6</sub>)alkyl;

R<sup>2</sup> and R<sup>3</sup> are each independently selected from the group consisting of 5 hydrogen, deuterium, amino, halo, hydoxy, nitro, carboxy, (C2-C6)alkenyl, (C2-C<sub>6</sub>)alkynyl, trifluoromethyl, trifluoromethoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl wherein the alkyl, alkoxy or cycloalkyl groups are optionally substittued by one to three groups selected from halo, hydroxy, carboxy, amino (C<sub>1</sub>-C<sub>6</sub>)alkylthio,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino,  $(C_5-C_9)$ heteroaryl,  $(C_2-C_9)$ heterocycloalkyl, 10 (C<sub>3</sub>-C<sub>9</sub>)cycloalkyl or (C<sub>6</sub>-C<sub>10</sub>)aryl; or R<sup>2</sup> and R<sup>3</sup> are each independently (C<sub>3</sub>- $C_{10}$ )cycloalkyl,  $(C_3-C_{10})$ cycloalkoxy,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino,  $(C_6-C_6)$ alkyl (C₁-C<sub>6</sub>)alkylthio, (C<sub>6</sub>-C<sub>10</sub>)arylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfinyl, C<sub>10</sub>)arylamino,  $C_{10}$ )arylsulfinyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_6-C_{10})$ arylsulfonyl,  $(C_1-C_6)$ acyl,  $(C_1-C_6)$ alkoxy-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkyamino-CO-, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>2</sub>-C<sub>9</sub>)heterocycloalkyl or (C<sub>6</sub>-15 C<sub>10</sub>)aryl wherein the heteroaryl, heterocycloalkyl and aryl groups are optionally substituted by one to three halo, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-NH-,  $(C_1-C_6)$ alkyl-CO-NH- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-NH- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$  $C_6$ )alkoxy-CO-NH-( $C_1$ - $C_6$ )alkoxy, carboxy, carboxy( $C_1$ - $C_6$ )alkoxy, carboxy( $C_1$ - $C_6$ )alkoxy, benzyloxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_6$ - $C_{10}$ )aryl, 20  $(C_6-C_{10})aryl(C_1$ amino. amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonylamino, C<sub>6</sub>)alkoxycarbonylamino, (C₁-C<sub>6</sub>)alkylamino,  $((C_1-C_6)alkyl)_2amino,$  $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, (( $C_1$ - $C_6$ )alkyl)<sub>2</sub>amino( $C_1$ - $C_6$ )alkyl, hydroxy, ( $C_1$ - $C_6$ )alkoxy, carboxy, carboxy( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ -(C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-NH-, cyano,  $(C_{5}-$ 25 C<sub>6</sub>)alkyl, C<sub>9</sub>)heterocycloalkyl, amino-CO-NH-, (C₁-C<sub>6</sub>)alkylamino-CO-NH-, ((C₁-C<sub>6</sub>)alkyl)<sub>2</sub>amino-CO-NH-, (C<sub>6</sub>-C<sub>10</sub>)arylamino-CO-NH-, (C<sub>5</sub>-C<sub>9</sub>)heteroarylamino-CO- $(C_1-C_6)$ alkylamino-CO-NH- $(C_1-C_6)$ alkyl,  $((C_1-C_6)alkyl)_2$ amino-CO-NH- $(C_1-C_6)alkyl)_2$ NH-. C<sub>6</sub>)alkyl, (C<sub>6</sub>-C<sub>10</sub>)arylamino-CO-NH-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>5</sub>-C<sub>9</sub>)heteroarylamino-CO-NH-(C<sub>1</sub>-30 C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C₁-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>- $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_6$ - $C_{10}$ )arylsulfonyl, ( $C_6$ - $C_{10}$ )arylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino,  $(C_6-C_{10})$ arylsulfonylamino $(C_1-C_6)$ alkyl, (C<sub>1</sub>- $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_5$ - $C_9$ )heteroaryl or ( $C_2$ - $C_9$ )heterocycloalkyl; effective in treating such a condition.

2. A method according to claim 1, wherein a is 0; b is 1; X is carbonyl; c is 0; d is 0; e is 0; f is 0; and g is 0.

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3. A method according to claim 1, wherein a is 0; b is 1; X is carbonyl; c is 0; d is 1; e is 0; f is 0, and g is 0.

- 5 4. A method according to claim 1, wherein a is 0; b is 1; X is carbonyl; c is 1; d is 0; e is 0; f is 0; and g is 0.
  - 5. A method according to claim 1, wherein a is 0; b is 1; X is C(=N=cyano)-; c is 1; d is 0; e is 0; f is 0; and g is 0.
- 6. A method according to claim 1, wherein a is 0; b is 0; c is 0; d is 0; e is 0; f is 0; g is 1; and Z is -C(O)-O-.
  - 7. A method according to claim 1, wherein a is 0; b is 1; X is  $S(O)_n$ ; n is 2; c is 0; d is 0; e is 0; f is 0; and g is 0.
  - 8. A method according to claim 1, wherein a is 0; b is 1; X is S(O)<sub>n</sub>; n is 2; c is 0; d is 2; e is 0; f is 1; g is 1; and Z is carbonyl.
- 9. A method according to claim 1, wherein a is 0; b is 1; X is S(O)<sub>n</sub>; n is 2; c is 0; d is 2; e is 0; f is 1; and g is 0.
  - 10. A method according to claim 1, wherein a is 0; b is 1; X is carbonyl; c is 1; d is 0; e is 1; Y is S(O)<sub>n</sub>; n is 2; f is 0; and g is 0.
- 11. A method according to claim 1, wherein a is 0; b is 1; X is  $S(O)_n$ ; n is 20 2; c is 1; d is 0; e is 0; f is 0; and g is 0.
  - 12. A method according to claim 1, wherein  $R^{12}$  is cyano, trifluoromethyl,  $(C_1-C_6)$ alkyl, trifluoromethyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl- $(C_1-C$
- 13. A method according to claim 1, wherein said compound is selected from the group consisting of:

Methyl-[4-methyl-1-(propane-1-sulfonyl)-piperidin-3-yl]-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amine;

- 4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidine-1-carboxylic acid methyl ester;
- 30 3,3,3-Trifluoro-1-{4-methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidin-1-yl}-propan-1-one;
  - 4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidine-1-carboxylic acid dimethylamide;
- ({4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidine-1-35 carbonyl}-amino)-acetic acid ethyl ester;
  - 3-{4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidin-1-yl}-3-oxo-propionitrile;

5 3,3,3-Trifluoro-1-{4-methyl-3-[methyl-(5-methyl-7H-pyrrolo[2,3-d]pyrimidin-4yl)-amino]-piperidin-1-yl}-propan-1-one; 1-{4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidin-1-yl}but-3-yn-1-one; 1-{3-[(5-Chloro-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-methyl-amino]-4-methylpiperidin-1-yl}-propan-1-one; 10 1-{3-[(5-Fluoro-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-methyl-amino]-4-methylpiperidin-1-yl}-propan-1-one; N-cyano-4-methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-N'propyl-piperidine-1-carboxamidine; 15 N-cyano-4,N',N'-Trimethyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]piperidine-1-carboxamidine; Methyl-[(3R,4R)-4-methyl-1-(propane-1-sulfonyl)-piperidin-3-yl]-(7Hpyrrolo[2,3-d]pyrimidin-4-yl)-amine; (3R,4R)-)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]piperidine-1-carboxylic acid methyl ester; 20 3,3,3-Trifluoro-1-{(3R,4R)-4-methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4yl)-amino]-piperidin-1-yl}-propan-1-one; (3R,4R)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]piperidine-1-carboxylic acid dimethylamide; 25 {(3R,4R)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidine-1-carbonyl}-amino)-acetic acid ethyl ester; 3-{(3R,4R)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]piperidin-1-yl}-3-oxo-propionitrile; 3,3,3-Trifluoro-1-{(3R,4R)-4-methyl-3-[methyl-(5-methyl-7H-pyrrolo[2,3-30 d]pyrimidin-4-yl)-amino]-piperidin-1-yl}-propan-1-one; 1-{(3R,4R)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]piperidin-1-yl}-but-3-yn-1-one; 1-{(3R,4R)-3-[(5-Chloro-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-methyl-amino]-4methyl-piperidin-1-yl}-propan-1-one; 35 1-{(3R,4R)-3-[(5-Fluoro-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-methyl-amino]-4methyl-piperidin-1-yl}-propan-1-one; (3R,4R)-N-cyano-4-methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-N'-propyl-piperidine-1-carboxamidine; and

(3R,4R)-N-cyano-4,N',N'-Trimethyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidine-1-carboxamidine.

14. A method of treating or preventing acute organ transplant rejection in a mammal, including a human, comprising administering to said mammal an amount of a compound of the formula

$$\begin{array}{c|c}
R^1 & R^2 \\
N & N \\
N & H
\end{array}$$

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or the pharmaceutically acceptable salt thereof; wherein

R<sup>1</sup> is a group of the formula

$$R^4$$
 $(CH_2)_y$ 

wherein y is 0, 1 or 2;

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 $R^4$  is selected from the group consisting of hydrogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_1\text{-}C_6)$ alkylsulfonyl,  $(C_2\text{-}C_6)$ alkenyl,  $(C_2\text{-}C_6)$ alkynyl wherein the alkyl, alkenyl and alkynyl groups are optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1\text{-}C_4)$ alkoxy,  $(C_1\text{-}C_6)$ acyloxy,  $(C_1\text{-}C_6)$ alkylamino,  $((C_1\text{-}C_6)$ alkyl) $_2$ amino, cyano, nitro,  $(C_2\text{-}C_6)$ alkenyl,  $(C_2\text{-}C_6)$ alkynyl or  $(C_1\text{-}C_6)$ acylamino; or  $R^4$  is  $(C_3\text{-}C_{10})$ cycloalkyl wherein the cycloalkyl group is optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1\text{-}C_6)$ acyloxy,  $(C_1\text{-}C_6)$ acylamino,  $(C_1\text{-}C_6)$ alkyl) $_2$ amino, cyano, cyano $(C_1\text{-}C_6)$ alkyl, trifluoromethyl $(C_1\text{-}C_6)$ alkyl, nitro, nitro $(C_1\text{-}C_6)$ alkyl or  $(C_1\text{-}C_6)$ acylamino;

 $R^5$  is  $(C_2-C_9)$ heterocycloalkyl wherein the heterocycloalkyl groups must be substituted by one to five carboxy, cyano, amino, deuterium, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, halo,  $(C_1-C_6)$ acyl,  $(C_1-C_6)$ alkylamino, amino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylamino-CO-NH,  $(C_1-C_6)$ alkylamino-CO-,  $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$  alkynyl,  $(C_1-C_6)$ alkylamino, amino $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl, nitro, cyano $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl, nitro $(C_1-C_6)$ alkyl, trifluoromethyl, trifluoromethyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino,  $(C_1-C_6)$ acylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acyl, amino $(C_1-C_6)$ acyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acyl, amino $(C_1-C_6)$ acyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acylamino

C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)acyl, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)₂amino(C<sub>1</sub>-C<sub>6</sub>)acyl, R<sup>15</sup>R<sup>16</sup>N-CO-O-, R<sup>15</sup>R<sup>16</sup>N-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-S(O)<sub>m</sub>, R<sup>15</sup>R<sup>16</sup>NS(O)<sub>m</sub>, R<sup>15</sup>R<sup>16</sup>NS(O)<sub>m</sub> (C<sub>1</sub>-C<sub>6</sub>)alkyl, R<sup>15</sup>S(O)<sub>m</sub> R<sup>16</sup>N, R<sup>15</sup>S(O)<sub>m</sub>R<sup>16</sup>N(C<sub>1</sub>-C<sub>6</sub>)alkyl wherein m is 0, 1 or 2 and R<sup>15</sup> and R<sup>16</sup> are each independently selected from hydrogen or (C<sub>1</sub>-C<sub>6</sub>)alkyl; or a group of the formula

$$(CR^{6}R^{7})_{a}$$
 $(X)_{b}$ 
 $(CR^{9}R^{10})_{d}$ 
 $(Y)_{e}$ 
 $(Y)_{e}$ 
 $(Z)_{g}$ 
 $(Z)_{g}$ 

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10 wherein a is 0, 1, 2, 3 or 4;

b, c, e, f and g are each independently 0 or 1;

d is 0, 1, 2, or 3;

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X is  $S(O)_n$  wherein n is 0, 1 or 2; oxygen, carbonyl or -C(=N-cyano)-;

Y is S(O)<sub>n</sub> wherein n is 0, 1 or 2; or carbonyl; and

Z is carbonyl, C(O)O-, C(O)NR- or  $S(O)_n$  wherein n is 0, 1 or 2;

 $R^6$ ,  $R^7$ ,  $R^8$ ,  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each independently selected from the group consisting of hydrogen or  $(C_1-C_6)$ alkyl optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1-C_6)$ acyloxy,  $(C_1-C_6)$ acylamino,  $(C_1-C_6)$ alkyl)<sub>2</sub>amino, cyano, cyano $(C_1-C_6)$ alkyl, trifluoromethyl $(C_1-C_6)$ alkyl, nitro, nitro $(C_1-C_6)$ alkyl or  $(C_1-C_6)$ acylamino;

R<sup>12</sup> is carboxy, cyano, amino, oxo, deuterium, hydroxy, trifluoromethyl, (C<sub>1</sub>trifluoromethyl( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, halo, (C₁-C<sub>6</sub>)acyl,  $C_6$ )alkylamino, (( $C_1$ - $C_6$ )alkyl)<sub>2</sub> amino, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy-CO-NH, ( $C_1$ -C<sub>6</sub>)alkylamino-CO-, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>) alkynyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, hydroxy(C<sub>1</sub>- $C_6$ )alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acyloxy $(C_1-C_6)$ alkyl, nitro, cyano $(C_1-C_6)$ alkyl, nitro, cyan C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, nitro(C<sub>1</sub>-C<sub>6</sub>)alkyl, trifluoromethyl, trifluoromethyl(C<sub>1</sub>- $(C_1-C_6)$ acylamino $(C_1-C_6)$ alkyl, C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)acylamino,  $(C_1-C_6)$ alkoxy $(C_1 C_6$ )acylamino, amino( $C_1$ - $C_6$ )acyl, amino( $C_1$ - $C_6$ )acyl( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )acyl,  $((C_1-C_6)alkyl)_2$ amino $(C_1-C_6)acyl$ ,  $R^{15}R^{16}N-CO-O-$ ,  $R^{15}R^{16}N-CO-(C_1-C_6)alkyl$ ,  $R^{15}C(O)NH$ ,  $R^{15}OC(O)NH$ ,  $R^{15}NHC(O)NH$ ,  $(C_1-C_6)alkyl-S(O)_m$ ,  $(C_1-C_6)alkyl-S(O)_m$  $R^{15}R^{16}NS(O)_{m}$ ,  $R^{15}R^{16}NS(O)_{m}$  (C<sub>1</sub>-C<sub>6</sub>)alkyl,  $R^{15}S(O)_{m}$   $R^{16}N$ , (C<sub>1</sub>-C<sub>6</sub>)alkyl,

5 R<sup>15</sup>S(O)<sub>m</sub>R<sup>16</sup>N(C<sub>1</sub>-C<sub>6</sub>)alkyl wherein m is 0, 1 or 2 and R<sup>15</sup> and R<sup>16</sup> are each independently selected from hydrogen or (C<sub>1</sub>-C<sub>6</sub>)alkyl;

R<sup>2</sup> and R<sup>3</sup> are each independently selected from the group consisting of hydrogen, deuterium, amino, halo, hydoxy, nitro, carboxy, (C2-C6)alkenyl, (C2- $C_6$ )alkynyl, trifluoromethyl, trifluoromethoxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ alkoxy,  $(C_3-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ alkyl,  $(C_1-C_6)$ alkyl, C<sub>10</sub>)cycloalkyl wherein the alkyl, alkoxy or cycloalkyl groups are optionally substittued 10 by one to three groups selected from halo, hydroxy, carboxy, amino (C<sub>1</sub>-C<sub>6</sub>)alkylthio,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino,  $(C_5-C_9)$ heteroaryl,  $(C_2-C_9)$ heterocycloalkyl,  $(C_3-C_9)$ cycloalkyl or  $(C_6-C_{10})$ aryl; or  $R^2$  and  $R^3$  are each independently  $(C_3-C_9)$  $C_{10}$ )cycloalkyl,  $(C_3-C_{10})$ cycloalkoxy,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino,  $(C_6-C_{10})$ cycloalkoxy,  $(C_6-C_{10})$ cycloalkyl,  $(C_6-C_{10})$ cycloalkoxy,  $(C_6-C_{10})$ cycloalkyl,  $(C_6-C_{10})$ cycloalkyl,  $(C_6-C_{10})$ cycloalkyl,  $(C_6-C_{10})$ cycloalkoxy,  $(C_6-C_{10})$ cycloalkyl,  $(C_6-C_{10})$ cyclo 15 C<sub>10</sub>)arylamino, (C₁-C<sub>6</sub>)alkylthio, (C<sub>6</sub>-C<sub>10</sub>)arylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfinyl,  $(C_{6} C_{10}$ )arylsulfinyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_6-C_{10})$ arylsulfonyl,  $(C_1-C_6)$ acyl,  $(C_1-C_6)$ alkoxy-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkyamino-CO-, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>2</sub>-C<sub>9</sub>)heterocycloalkyl or (C<sub>6</sub>-C<sub>10</sub>)aryl wherein the heteroaryl, heterocycloalkyl and aryl groups are optionally substituted by one to three halo, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-NH-,  $(C_1-C_6)$ alkyl-CO-NH- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-NH- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ 20  $C_6$ )alkoxy-CO-NH-( $C_1$ - $C_6$ )alkoxy, carboxy, carboxy( $C_1$ - $C_6$ )alkyl, carboxy( $C_1$ - $C_6$ )alkoxy, benzyloxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_6$ - $C_{10}$ )aryl, amino, amino(C₁-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonylamino,  $(C_6-C_{10})$ ary $I(C_1-$ C<sub>6</sub>)alkoxycarbonylamino, (C₁-C<sub>6</sub>)alkylamino,  $((C_1-C_6)alkyl)_2amino,$ (C<sub>1</sub>- $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, (( $C_1$ - $C_6$ )alkyl)<sub>2</sub>amino( $C_1$ - $C_6$ )alkyl, hydroxy, ( $C_1$ - $C_6$ )alkoxy, 25 carboxy( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ carboxy. (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-NH-, C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-NH-, cyano, (C<sub>5</sub>-C<sub>9</sub>)heterocycloalkyl, amino-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkylamino-CO-NH-, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)₂amino-CO-NH-, (C<sub>6</sub>-C<sub>10</sub>)arylamino-CO-NH-, (C<sub>5</sub>-C<sub>9</sub>)heteroarylamino-CO-NH-,  $(C_1-C_6)$ alkylamino-CO-NH- $(C_1-C_6)$ alkyl, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)<sub>2</sub>amino-CO-NH-(C<sub>1</sub>-30  $C_6$ )alkyl, ( $C_6$ - $C_{10}$ )arylamino-CO-NH-( $C_1$ - $C_6$ )alkyl, ( $C_5$ - $C_9$ )heteroarylamino-CO-NH-( $C_1$ -(C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino,  $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_6$ - $C_{10}$ )arylsulfonyl, ( $C_6$ - $C_{10}$ )arylsulfonylamino,  $(C_6-C_{10})$ arylsulfonylamino $(C_1-C_6)$ alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>- $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_5$ - $C_9$ )heteroaryl or ( $C_2$ - $C_9$ )heterocycloalkyl; 35

effective in treating such a condition.

15. A pharmaceutical composition for treating or preventing chronic organ transplant rejection in a mammal, including a human, comprising an amount of a compound of the formula

$$\begin{array}{c|c}
R^1 & R^2 \\
N & N \\
N & H
\end{array}$$

or the pharmaceutically acceptable salt thereof; wherein

R<sup>1</sup> is a group of the formula

wherein y is 0, 1 or 2;

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 $R^4$  is selected from the group consisting of hydrogen,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl wherein the alkyl, alkenyl and alkynyl groups are optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1-C_4)$ alkoxy,  $(C_1-C_6)$ acyloxy,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino, cyano, nitro,  $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl or  $(C_1-C_6)$ acylamino; or  $R^4$  is  $(C_3-C_{10})$ cycloalkyl wherein the cycloalkyl group is optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1-C_6)$ acyloxy,  $(C_1-C_6)$ acylamino,  $(C_1-C_6)$ alkyl)<sub>2</sub>amino, cyano, cyano $(C_1-C_6)$ alkyl, trifluoromethyl $(C_1-C_6)$ alkyl, nitro, nitro $(C_1-C_6)$ alkyl or  $(C_1-C_6)$ acylamino;

 $R^5$  is  $(C_2-C_9)$ heterocycloalkyl wherein the heterocycloalkyl groups must be substituted by one to five carboxy, cyano, amino, deuterium, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, halo,  $(C_1-C_6)$ acyl,  $(C_1-C_6)$ alkylamino, amino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-NH,  $(C_1-C_6)$ alkylamino-CO-,  $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$  alkynyl,  $(C_1-C_6)$ alkylamino, amino $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl, nitro, cyano $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl, nitro $(C_1-C_6)$ alkyl, trifluoromethyl, trifluoromethyl $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acylamino,  $(C_1-C_6)$ acylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ acylamino, amino $(C_1-C_6)$ acyl,  $(C_1-C_6)$ alkyl,  $(C_1$ 

R<sup>15</sup>S(O)<sub>m</sub> R<sup>16</sup>N, R<sup>15</sup>S(O)<sub>m</sub>R<sup>16</sup>N(C<sub>1</sub>-C<sub>6</sub>)alkyl wherein m is 0, 1 or 2 and R<sup>15</sup> and R<sup>16</sup> are each independently selected from hydrogen or (C<sub>1</sub>-C<sub>6</sub>)alkyl; or a group of the formula

$$(CR^{6}R^{7})_{a} \qquad (X)_{b} \qquad (CR^{9}R^{10})_{d} \qquad (Y)_{e} \qquad (Y)_{e} \qquad (Z)_{g} \qquad (Z)_{g} \qquad (X)_{b} \qquad (X)_{e} \qquad (X)_{g} \qquad (X)$$

11

wherein a is 0, 1, 2, 3 or 4;

b, c, e, f and g are each independently 0 or 1;

10 d is 0, 1, 2, or 3;

15

X is  $S(O)_n$  wherein n is 0, 1 or 2; oxygen, carbonyl or -C(=N-cyano)-;

Y is S(O)<sub>n</sub> wherein n is 0, 1 or 2; or carbonyl; and

Z is carbonyl, C(O)O-, C(O)NR- or S(O)<sub>n</sub> wherein n is 0, 1 or 2;

 $R^6$ ,  $R^7$ ,  $R^8$ ,  $R^9$ ,  $R^{10}$  and  $R^{11}$  are each independently selected from the group consisting of hydrogen or  $(C_1-C_6)$ alkyl optionally substituted by deuterium, hydroxy, amino, trifluoromethyl,  $(C_1-C_6)$ acyloxy,  $(C_1-C_6)$ acylamino,  $(C_1-C_6)$ alkyl)<sub>2</sub>amino, cyano, cyano $(C_1-C_6)$ alkyl, trifluoromethyl $(C_1-C_6)$ alkyl, nitro, nitro $(C_1-C_6)$ alkyl or  $(C_1-C_6)$ acylamino;

R<sup>12</sup> is carboxy, cyano, amino, oxo, deuterium, hydroxy, trifluoromethyl, (C<sub>1</sub>trifluoromethyl( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, halo, 20  $(C_1-C_6)$ acyl,  $C_6$ )alkylamino, (( $C_1$ - $C_6$ )alkyl)<sub>2</sub> amino, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy-CO-NH, ( $C_1$ - $C_6$ )alkylamino-CO-, ( $C_2$ - $C_6$ )alkenyl, ( $C_2$ - $C_6$ ) alkynyl, ( $C_1$ - $C_6$ )alkylamino, hydroxy( $C_1$ - $C_6$ )alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ acyloxy $(C_1-C_6)$ alkyl, nitro, cyano $(C_1-C_6)$ alkyl, nitro, cyan C<sub>6</sub>)alkyl, halo( $C_1$ - $C_6$ )alkyl, nitro( $C_1$ - $C_6$ )alkyl, trifluoromethyl, trifluoromethyl(C<sub>1</sub>- $(C_1-C_6)$ acylamino $(C_1-C_6)$ alkyl, 25 C<sub>6</sub>)alkyl, (C₁-C<sub>6</sub>)acylamino,  $(C_1-C_6)$ alkoxy $(C_1 C_6$ )acylamino, amino( $C_1$ - $C_6$ )acyl, amino( $C_1$ - $C_6$ )acyl( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )acyl,  $((C_1-C_6)alkyl)_2$ amino $(C_1-C_6)acyl$ ,  $R^{15}R^{16}N-CO-O-$ ,  $R^{15}R^{16}N-CO-(C_1-C_6)alkyl$ ,  $R^{15}C(O)NH$ ,  $R^{15}OC(O)NH$ ,  $R^{15}NHC(O)NH$ ,  $(C_1-C_6)alkyl-S(O)_m$ ,  $(C_1-C_6)alkyl-S(O)_m$ - $R^{15}R^{16}NS(O)_m$ ,  $R^{15}R^{16}NS(O)_m$  (C<sub>1</sub>-C<sub>6</sub>)alkyl,  $R^{15}S(O)_m$   $R^{16}N$ , (C<sub>1</sub>-C<sub>6</sub>)alkyl,  $R^{15}S(O)_mR^{16}N(C_1-C_6)$ alkyl wherein m is 0, 1 or 2 and  $R^{15}$  and  $R^{16}$  are each 30 independently selected from hydrogen or (C<sub>1</sub>-C<sub>6</sub>)alkyl;

 $\ensuremath{\mbox{R}^2}$  and  $\ensuremath{\mbox{R}^3}$  are each independently selected from the group consisting of 5 hydrogen, deuterium, amino, halo, hydoxy, nitro, carboxy, (C2-C6)alkenyl, (C2-C<sub>6</sub>)alkynyl, trifluoromethyl, trifluoromethoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl wherein the alkyl, alkoxy or cycloalkyl groups are optionally substittued by one to three groups selected from halo, hydroxy, carboxy, amino (C<sub>1</sub>-C<sub>6</sub>)alkylthio,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino,  $(C_5-C_9)$ heteroaryl,  $(C_2-C_9)$ heterocycloalkyl, 10 (C<sub>3</sub>-C<sub>9</sub>)cycloalkyl or (C<sub>6</sub>-C<sub>10</sub>)aryl; or R<sup>2</sup> and R<sup>3</sup> are each independently (C<sub>3</sub>- $C_{10}$ )cycloalkyl,  $(C_3-C_{10})$ cycloalkoxy,  $(C_1-C_6)$ alkylamino,  $((C_1-C_6)$ alkyl)<sub>2</sub>amino,  $(C_6-C_6)$ C<sub>10</sub>)arylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylthio,  $(C_6-C_{10})$ arylthio, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfinyl,  $C_{10}$ )arylsulfinyl,  $(C_1-C_6)$ alkylsulfonyl,  $(C_6-C_{10})$ arylsulfonyl,  $(C_1-C_6)$ acyl,  $(C_1-C_6)$ alkoxy-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkyamino-CO-, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>2</sub>-C<sub>9</sub>)heterocycloalkyl or (C<sub>6</sub>-15 C<sub>10</sub>)aryl wherein the heteroaryl, heterocycloalkyl and aryl groups are optionally substituted by one to three halo, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-NH-,  $(C_1-C_6)$ alkyl-CO-NH- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-NH- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$  $C_6$ )alkoxy-CO-NH-( $C_1$ - $C_6$ )alkoxy, carboxy, carboxy( $C_1$ - $C_6$ )alkyl, carboxy( $C_1$ - $C_6$ )alkoxy, benzyloxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_6$ - $C_{10}$ )aryl, 20 amino. amino( $C_1$ - $C_6$ )alkyl,  $(C_1-C_6)$ alkoxycarbonylamino,  $(C_6-C_{10})$ aryl $(C_1-$ C<sub>6</sub>)alkoxycarbonylamino, (C₁-C<sub>6</sub>)alkylamino,  $((C_1-C_6)alkyl)_2amino,$ (C<sub>1</sub>- $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, (( $C_1$ - $C_6$ )alkyl)<sub>2</sub>amino( $C_1$ - $C_6$ )alkyl, hydroxy, ( $C_1$ - $C_6$ )alkoxy, carboxy, carboxy( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ -C<sub>6</sub>)alkyl,  $(C_1-C_6)$ alkoxy-CO-NH-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-NH-, 25 cyano, (C<sub>5</sub>-C<sub>9</sub>)heterocycloalkyl, amino-CO-NH-,  $(C_1-C_6)$ alkylamino-CO-NH-, ((C<sub>1</sub>-C<sub>6</sub>)alkyl)₂amino-CO-NH-, (C<sub>6</sub>-C<sub>10</sub>)arylamino-CO-NH-, (C<sub>5</sub>-C<sub>9</sub>)heteroarylamino-CO- $(C_1-C_6)$ alkylamino-CO-NH- $(C_1-C_6)$ alkyl NH-.  $((C_1-C_6)alkyl)_2amino-CO-NH-(C_1-$ C<sub>6</sub>)alkyl, (C<sub>6</sub>-C<sub>10</sub>)arylamino-CO-NH-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>5</sub>-C<sub>9</sub>)heteroarylamino-CO-NH-(C<sub>1</sub>-30 C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonyl, (C₁-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>- $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_6$ - $C_{10}$ )arylsulfonyl, ( $C_6$ - $C_{10}$ )arylsulfonylamino,  $(C_6-C_{10})$ arylsulfonylamino $(C_1-C_6)$ alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino,  $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_5$ - $C_9$ )heteroaryl or ( $C_2$ - $C_9$ )heterocycloalkyl, effective in such disorders or conditions and a pharmaceutically acceptable carrier.